# Management Plan

By: Steven Whaley and Denney Burkholder

Each group member has been significantly involved in each major area of development at least in terms of input on design issues and more generally participation in frequent group discussions. Tasks related to documentation (such as the creation of UML diagrams, code comments, etc.) have been shared between all members as well.

## Task Assignments

Beyond design decisions, a few tasks were explicitly defined to specific people. Group members have roughly stayed within the area they worked on for the cycle two.

Cycle Two Task Assignments:

Leo Reyes: Server development and integrating database and web UI.

Steven Whaley: The database communication portion of the server requests, and database functions to answer requests for data appropriately.

Denney Burkholder: The http communication portion of the server requests, updating web UI look as our needs change.

Nathan Plotts: The laptop device and GPS device portion of the server requests.

Charlie Baker: Geogram and keylogger server requests.

## Schedule

At the end of cycle one, we had many features working, but they were not all linked and accessible through each other. This included the windows service key logger, mysql database, GoLang application/web server, GeoGram, and static webpages. For the first week, we met with our group to decide the goals for this cycle. We decided our top priorities would be to optimize communication between all the devices and the server, and also to make our features controllable to the user through the web UI.

For the first week, we were in the mindset of spring break, and didn’t manage our time well in the week leading up. While we did get a few things accomplished, it wasn’t at the pace with which we have been working up to this point. For the most part, we began working on implementing server requests from the devices, and the request handler found in the server. For the second week, a lot of our time was spent continuing the task of implementing the server requests and adding error handling to the ones that were functioning. With the requests coming together, the next step for integrating the components of the project made the need for more database functions prevalent. With the addition of more database functions, the UI integration started coming together. This week we dynamically pulled and displayed the registered devices specific to the user who is logged in on the website. It also became possible for the user to add a new device on the website, and the database handles and stores the data appropriately to be recalled again. After a short scare, we got the GeoGram set up for motion detection. Initially we thought the devices accelerometer might be faulty, but it turned out that the wrong version of firmware was installed. For the third week, we began preparing our code for the demo. One of the first tasks accomplished was getting the server to begin tracking the GeoGram device when it receives an awake message. The GPS can now send and store coordinates in the database, and those coordinates can then be pulled for the webpage. The webpages can dynamically display the keylogger data and IP List for each device from the data in the database. At this point we chose our code and freeze date to be March 29, 2014. From this point on, until the end of Cycle Two we are focusing on finishing documentation and preparing for our presentation.

Our intent for cycle two is not set in stone. We plan to stress test our system, and ensure its quality. The website still has a few functions that need to be implemented and could always look cleaner. Beyond this goal, we need to meet with our sponsor’s correspondent to find out what his priorities for the project are in order to know what direction we should focus on.

## Planned Code/Feature Freeze

March 29th was our Cycle Two code/feature freeze.